

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION**

ORDER NO. R7-2003-0019

WASTE DISCHARGE REQUIREMENTS
AND
CLOSURE/POST-CLOSURE MAINTENANCE
FOR
UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT, OWNER/LESSOR
COUNTY OF SAN BERNARDINO, OPERATOR/LESSEE
PARKER DAM SANITARY LANDFILL
CLASS III LANDFILL
Southwest of Parker Dam – San Bernardino County

The California Regional Water Quality Control Board, Colorado River Basin Region, finds that:

1. The County of San Bernardino, 222 West Hospitality Lane, San Bernardino, California 92415-0017, is the operator and lessee of the Parker Dam Sanitary Landfill (hereinafter referred to as the Landfill), located approximately three (3) miles southwest of Parker Dam.
2. The United States Department of the Interior, Bureau of Land Management (BLM), 690 W. Garnet Avenue, North Palm Springs, California 92258, is the lessor and owner of the property known as Parker Dam Sanitary Landfill, Parker Dam, California.
3. Definition of terms used in this Board Order:
 - a. Waste Management Facility (WMF) – The entire parcel of property where waste discharge operations are conducted.
 - b. Waste Management Unit (WMU) – An area of land, or a portion of waste management facility, where waste is or was discharged. The term includes containment and ancillary features for precipitation and drainage control and monitoring.
 - c. Landfill – A waste management unit where waste is discharged to land. It does not include surface impoundments, waste piles, or land and soil treatment.
 - d. Discharger – Discharger means the County of San Bernardino and BLM.
4. The Landfill is located in southern California, southwest of the city of Parker Dam in San Bernardino County, as shown on Attachments A & B. The property encompasses 40 acres. The landfilling occurred on 5.5 acres of the property. The Landfill is located in the NW Corner of Section 17, T2N, R27E, SBB&M, as shown on Attachment C.
5. The Landfill is bounded on the north by Precambrian Metamorphic Gneiss and on the northwest by the Whipple Mountains. The crystalline bedrock is exposed over about half of the site. Beneath the site and immediately overlying the gneiss bedrock are Quarternary alluvial materials consisting of interbedded gravels, sands, silts and clays. In these areas, depth to bedrock varies across the site from 17.5 feet to 100 feet.
6. The discharger reports that no documented faults cross the site. Several faults occur approximately two (2) miles west and north of the site in the Whipple Mountain area. None of the faults are considered active or potentially active.

7. The Landfill started operating in 1957. In 1972, the Landfill became subject to Waste Discharge Requirements (WDRs) under Board Order No. 72-035. The WDRs were updated in Board Order No. 83-009.
8. In 1987, the Landfill stopped receiving waste. Board Order No. 91-049 was adopted on November 20, 1991, to reflect the closure and post-closure maintenance requirements.
9. The discharger reports that about 38,000 cubic yards of non-hazardous and inert wastes, as defined in Title 27, were disposed of at this WMF.
10. The non-hazardous and inert solid wastes consisted of residential trash, commercial demolition wastes, and agricultural wastes. In addition to the solid waste, the WMF also accepted septage wastes, including septic tank pumpage, chemical toilet waste, grease and oil trap pumpings.
11. The septage pond materials were excavated and disposed of in the Landfill when the site was closed in 1987. The excavated septage pond area was backfilled with clean soil.
12. On September 15, 1993, the WDRs were amended when Board Order No. 93-071 incorporating RCRA, Subtitle D, was adopted by the Regional Board.
13. The Landfill is currently regulated by WDRs under Board Orders No. 91-049 and 93-071. These WDRs are being updated to incorporate applicable closure requirements of combined State Water Resources Control Board/California Integrated Waste Management Board regulations, Division 2, Title 27 (hereinafter referred to as Title 27) and closure and post-closure regulations of Section 258.6, Subpart F of Resources Conservation and Recovery Act, Subtitle D (hereinafter referred to as RCRA, Subtitle D).
14. The Landfill is not lined and does not have a leachate collection removal system.
15. The discharger reports that the WMF is used as non-irrigated open space.
16. Land in the vicinity of the WMF is zoned as a resource conservation district by the County of San Bernardino. Land use in the vicinity of the WMF is predominantly for recreational activities.
17. Average annual precipitation for the general vicinity of the site is about 4.5 inches per year. The average annual evaporation is 86 inches per year.
18. The 100-year, 24-hour precipitation event for the site is 3.5 inches.
19. Surface water drainage in the area of the WMF is primarily controlled by southeast trending ephemeral desert washes. These washes drain the mountains to the north of the WMF and eventually empty into the Colorado River. Elevations across the site range from approximately 440 feet above mean sea level (msl) near the northern edge to 390 feet above msl on the south side. The WMF is topographically 30 feet higher than the Colorado River floodplain.
20. A drainage channel along the eastern side of the WMF was constructed to provide a drainage path for surface water runoff from the north trending canyon in which the WMF was built. A concrete-lined drainage ditch was built along the northwestern periphery of the WMF as part of the closure work, in order to prevent infiltration of surface water runoff into the WMF.
21. In accordance with Section 15301, Chapter 3, Title 14 of the California Code of Regulations, the issuance of these waste discharge requirements, which govern the operation of an existing facility involving negligible or no expansion of use beyond that previously existing, is exempt from the provisions of the California Environmental Quality Act (Public Resources Code, Section 21000 et seq.)

22. The Landfill is located in the Colorado Hydrologic Unit.
23. The Water Quality Control Plan for the Colorado River Basin Region of California (Basin Plan) as amended to date, designates the beneficial uses of ground and surface water in the Region.
24. The designated beneficial uses of the ground waters in the Colorado Hydrologic Unit are:
 - a. Municipal supply (MUN)
 - b. Industrial supply (IND)
 - c. Agricultural supply (AGR)
24. The discharger submitted a Solid Waste Assessment Test (SWAT) report in July 1991. During the SWAT investigation, the discharger installed four (4) ground water monitoring wells at the Landfill. One (1) upgradient monitoring well; PD-1, and three (3) downgradient monitoring wells; PD-2, PD-3 and PD-4, as shown on Attachment C.
25. Groundwater flow beneath the site is toward the southeast. Groundwater depth ranges from 40 to 55 feet below ground surface and has a flat hydraulic gradient. The groundwater hydraulic gradient is estimated to be ~ 0.002 ft/ft.
26. The discharger constructed a final cover of three (3) layers of soil with a total thickness of four (4) feet as follows:
 - Foundation layer – approximately two (2) feet of sand and gravel
 - Hydraulic barrier layer – one (1) foot of low permeability clay
 - Protective soil layer – one (1) foot of soil
 - Vegetable cover – locally adaptable plant and grasses to prevent erosion
27. The monitoring and reporting requirements in Monitoring and Reporting Program No. R7-2003-0017, and the technical and monitoring program reports described in Provision C.13, are necessary to determine compliance with these WDRs and to determine the facility's impacts, if any, on ground water.
28. The Board has notified the discharger and all known interested agencies and persons of its intent to update waste discharge requirements for this discharge and has provided them with an opportunity for a public meeting and opportunity to submit comments.
29. The Board, in a public meeting, heard and considered all comments pertaining to this discharge.

IT IS HEREBY ORDERED, that Board Order No. R7-2002-0119 is rescinded, and in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, the discharger shall comply with the following:

A. Specifications

1. The discharger shall not cause degradation of any water supply.
2. Surface drainage from tributary areas, and internal site drainage from surface or subsurface sources, shall not contact or percolate through the wastes discharged at the site.
3. The exterior surface of final cover shall be graded and maintained to promote lateral runoff of precipitation and to prevent ponding.

4. The WMF shall be protected, during the post-closure maintenance period, from washout or inundation that could occur as a result of a 100-year storm event.
5. The Board shall be notified immediately of any structural failure occurring at the WMF.
6. The discharger shall use the constituents listed in Monitoring and Reporting Program No. R7-2003-0017 and revisions thereto, as "Monitoring Parameters". These monitoring parameters are subject to the most appropriate statistical or non-statistical test under Monitoring and Reporting Program No. R7-2003-0017, Part III, and any revised Monitoring and Reporting Program approved by the Regional Board's Executive Officer.
7. The discharger shall implement the attached Monitoring and Reporting Program No. R7-2003-0017, and revisions thereto, in order to detect, at the earliest opportunity, any unauthorized discharge of waste constituents from the WMF, or any unreasonable impairment of beneficial uses associated with (caused by) discharges of waste to the WMF.
8. The discharger shall not cause the concentration of any Constituent of Concern (COC) or monitoring parameter to exceed its respective background value in any monitored medium at any monitoring point assigned to detection monitoring.
9. The discharger shall follow the Water Quality Protection Standards (WQPS) for detection monitoring established by the Regional Board in this Board Order pursuant to Title 27. The following are five (5) parts of WQPS as established by the Regional Board (the terms of art used in this Board Order regarding monitoring are defined in Part I of the attached Monitoring and Reporting Program No. R7-2003-0017, and revisions thereto (hereby incorporated by reference):
 - a. The discharger shall test for the monitoring parameters and the COC listed in Monitoring and Reporting Program No. R7-2003-0017 and revisions thereto.
 - b. Concentration Limit – The concentration limits for each monitoring parameter and COC, for each monitoring point (as stated in Detection Monitoring Program Part II), shall be its background value as obtained during that reporting period.
 - c. Monitoring points and background monitoring points for detection monitoring shall be those listed in Part II.A.4. of the attached Monitoring and Reporting Program No. R7-2003-0017 and any revised Monitoring and Reporting Program approved by the Regional Board's Executive Officer.
 - d. Points of Compliance - The points of compliance monitoring wells shall be those listed in Part II.A.4 of the attached Monitoring and Reporting Program No. R7-2003-0017 and revisions thereto.
 - e. Compliance Period – The estimated duration of the compliance period for this Landfill is six (6) years. Each time the standard is not met (i.e., releases discovered), the Landfill begins a compliance period on the date the Regional Board directs the discharger to begin an Evaluation and Monitoring Program. If the dischargers' Corrective Action Program (CAP) has not achieved compliance with the standard by the scheduled end of the compliance period, the compliance period is automatically extended until the Landfill has been in continuous compliance for at least three (3) consecutive years.
10. The discharger shall remove and relocate any wastes that are discharged at this site after the closure.
11. Water used for site maintenance shall be limited to the amount necessary for dust control.

12. The discharger shall not cause the release of pollutants, or waste constituents in a manner which could cause a condition of contamination, nuisance or pollution to occur, as indicated by the most appropriate statistical (or non-statistical) data analysis method and retest method listed in Part III of the attached Monitoring and Reporting Program No. R7-2003-0017.
13. The discharger shall conduct a thorough and comprehensive inspection of the WMF once a year and immediately after any special events, such as earthquakes or storms.
14. The discharger shall install at a minimum, two (2) survey monuments at the Landfill for monitoring refuse settlement. Also, the entire permitted site shall be aerially photographed at the end of the closure activities and every five (5) years throughout the post-closure maintenance period.
15. The migration of any landfill gas shall be controlled as necessary to prevent impairment of beneficial uses of groundwater.

B. Prohibitions

1. The discharge of any waste to the WMF is prohibited.

C. Provisions

1. The discharger shall comply with Monitoring and Reporting Program No. R7-2003-0017, and future revisions thereto, as specified by the Regional Board's Executive Officer.
2. Prior to any change in ownership or management of this operation the discharger, the discharger shall transmit a copy of this Board Order to the succeeding owner/operator, and forward a copy of the transmittal letter to the Regional Board.
3. The discharger shall notify the Regional Board, in writing, of any proposed change in responsibility for post-closure maintenance.
4. The discharger shall ensure that all site-operating personnel are familiar with the content of this Board Order, and shall maintain a copy of this Board Order at the site.
5. This Board Order does not authorize violation of any federal, state, or local laws or regulations.
6. The discharger shall allow the Regional Board, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:
 - a. Enter upon the premises regulated by this Board Order, or the place where records must be kept under the conditions of this Board Order;
 - b. Have access to and copy, at reasonable times, any records that shall be kept under the conditions of this Board Order;
 - c. Inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated under this Board Order;
 - d. Sample or monitor, at reasonable times, for the purpose of assuring compliance with this Board Order or as otherwise authorized by the California Water Code, any substances or parameters at this location.
7. Unless otherwise approved by the Regional Board's Executive Officer, all analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health

Services. All analyses shall be conducted in accordance with the latest edition of "Guidelines Establishing Test Procedures for Analysis of Pollutants", promulgated by the USEPA.

8. The discharger shall neither cause nor contribute to the contamination or pollution of ground water via the release of waste constituents in either liquid or gaseous phase.
9. This Board Order does not convey any property rights of any sort or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.
10. All regulated disposal systems shall be readily accessible for sampling and inspection.
11. Adequate measures shall be taken to assure that flood or surface drainage waters do not erode or otherwise render portions of the discharge facilities inoperable.
12. The discharger is the responsible party of the WDRs and the Monitoring and Reporting Program for this facility. The discharger shall comply with all conditions of these WDRs. Violations may result in enforcement actions, including Regional Board Orders or court orders, requiring corrective action or imposing civil monetary liability, or modification or revocation of these WDRs by the Regional Board.
13. The discharger shall furnish, under penalty of perjury, technical monitoring program reports, and such reports shall be submitted in accordance with the specifications prepared by the Regional Board's Executive Officer. Such specifications are subject to periodic revisions as may be warranted.
14. All containment structures and erosion and drainage control systems shall be designed and constructed under direct supervision of a California Registered Civil Engineer or Certified Engineering Geologist, and shall be certified by the individual as meeting the prescriptive standards and performance goals of Title 27.
15. The Regional Board considers the property owner and operator to have a continuing responsibility for correcting any problems, which may arise in the future as a result of this waste discharge.
16. The discharger shall, within two (2) weeks of a significant earthquake event, submit to the Regional Board, a detailed post-earthquake report, describing any physical damages to the containment features, groundwater monitoring and/or leachate control facilities, and a corrective action plan to be implemented at the Landfill.
17. The discharger shall immediately notify the Regional Board of any flooding, slope failure or other change in site conditions, which could impair the integrity of waste containment facilities or of precipitation and drainage control structures.
18. The discharger shall maintain visible monuments identifying the boundary limits of the entire WMF.
19. Within 180 days of the adoption of this Board Order, the discharger shall submit to the Regional Board, in accordance with Section 20380(b) of Title 27, assurance of financial responsibility acceptable to the Regional Board's Executive Officer for initiating and completing corrective action for all known or reasonable foreseeable release for the Landfill.
20. The Discharger shall submit, to this Regional Board and to the California Integrated Waste Management Board, evidence of Financial Assurance for Closure and Post-Closure, pursuant to Section 22212, Title 27. The post-closure period shall be at least 30 years. However, the post-closure maintenance period shall extend as long as the waste poses a threat to water quality.

21. The discharger shall continue post-closure maintenance of the WMF and the ground water monitoring for a period of 30 years or until monitoring data indicates that contamination or environmental hazards are not occurring.
22. This Board Order is subject to Regional Board review and updating, as necessary, to comply with changing state of federal laws, regulations, policies, or guidelines, or changes in the discharger characteristics.

I, Philip A. Gruenberg, Executive Officer, do hereby certify the foregoing is a full, true and correct copy of an Order Adopted by the California Regional Water Quality Control Board, Colorado River Basin Region on May 7, 2003.

Executive Officer